

Resource Summary Report

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Roche: Veeco Nanoscope IIIA Atomic Force Microscope

RRID:SCR_020873

Type: Tool

Proper Citation

Roche: Veeco Nanoscope IIIA Atomic Force Microscope (RRID:SCR_020873)

Resource Information

URL: <https://www.utoledo.edu/engineering/cmsc/instruments/afm.html>

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Description: Veeco Multimode Nanoscope IIIa AFM has a resolution of ~ 0.3 nm with A scanner. The instrument is capable of imaging areas ~ 1 sq.,m (using the standard A scanner), ~12 sq.,m. (using vertical engagement EV scanner) and ~125 sq.,m (using vertical engagement JV scanner) in the XY direction. The scanning range in the Z direction for EV and JV scanner are ~ 2,m and ~ 5,m respectively. The AFM is capable of imaging in Contact mode and Tapping mode with Nanoindentation capabilities. Attachments include a Fluid Cell for imaging in liquids (Contact and Tapping mode) and an Anti-vibration suspension mount for atomic resolution imaging. A 15 mm sample disc is used to mount the samples with access to ~ 2-3 mm area at the center of the sample.

Resource Type: instrument resource

Keywords: Veeco, Atomic Force Microscope, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Roche: Veeco Nanoscope IIIA Atomic Force Microscope

Resource ID: SCR_020873

Alternate IDs: Model_Number_Nanoscope IIIA

Record Creation Time: 20220129T080352+0000

Record Last Update: 20260829T182659+0000

Ratings and Alerts

No rating or validation information has been found for Roche: Veeco Nanoscope IIIA Atomic Force Microscope.

No alerts have been found for Roche: Veeco Nanoscope IIIA Atomic Force Microscope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Miny S, et al. (2025) Influence of Aging and Diabetes on the Mechanical Properties of Mouse Skin. *Dermatopathology* (Basel, Switzerland), 12(2).

Ferreira AS, et al. (2025) Photoactivated Rose Bengal Triggers Phospholipid Hydroperoxidation and Late Apoptosis in Colorectal Cancer Cells. *Langmuir : the ACS journal of surfaces and colloids*, 41(10), 6789.

Wychowaniec JK, et al. (2024) Effects of proline substitution/inclusion on the nanostructure of a self-assembling β -sheet-forming peptide. *RSC advances*, 14(50), 37419.

Li M, et al. (2024) HIV-1 Integrase Assembles Multiple Species of Stable Synaptic Complex Intasomes That Are Active for Concerted DNA Integration In vitro. *Journal of molecular biology*, 436(10), 168557.

Ortiz-Dosal A, et al. (2024) Quasi-spherical silver nanoparticles for human prolactin detection by surface-enhanced Raman spectroscopy. *RSC advances*, 14(10), 6998.

Zhu H, et al. (2024) Salmonella exploits membrane reservoirs for invasion of host cells. *Nature communications*, 15(1), 3120.

Wang Y, et al. (2024) Preparing a novel baicalin-loaded microemulsion-based gel for transdermal delivery and testing its anti-gout effect. *Saudi pharmaceutical journal : SPJ : the official publication of the Saudi Pharmaceutical Society*, 32(6), 102100.

Frey L, et al. (2024) A structural rationale for reversible vs irreversible amyloid fibril formation from a single protein. *Nature communications*, 15(1), 8448.

Xu D, et al. (2023) Food amyloid fibrils are safe nutrition ingredients based on in-vitro and in-vivo assessment. *Nature communications*, 14(1), 6806.

Dudek D, et al. (2022) Zn(II) binding to pramlintide results in a structural kink, fibril formation and antifungal activity. *Scientific reports*, 12(1), 20543.

Zhou J, et al. (2022) Oat Plant Amyloids for Sustainable Functional Materials. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 9(4), e2104445.

Milošević J, et al. (2021) On the Protein Fibrillation Pathway: Oligomer Intermediates Detection Using ATR-FTIR Spectroscopy. *Molecules* (Basel, Switzerland), 26(4).

Jurado R, et al. (2021) Understanding the Formation of Apoferritin Amyloid Fibrils. *Biomacromolecules*, 22(5), 2057.

Al-Edresi S, et al. (2020) Resveratrol-mediated cleavage of amyloid β 1-42 peptide: potential relevance to Alzheimer's disease. *Neurobiology of aging*, 94, 24.

Maciejewska BM, et al. (2019) UV cross-linked polyvinylpyrrolidone electrospun fibres as antibacterial surfaces. *Science and technology of advanced materials*, 20(1), 979.